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Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name ZEP 65

Product use Aerosol. General Purpose Cleaner

Product code 0037

Date of issue 05/30/11 **Supersedes** 06/18/08

Emergency Telephone Numbers

For MSDS Information:
Technical Services Group
Telephone (780) 453-8100
(Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency
CANUTEC (24 Hours)
(613) 996-6666 - Call Collect

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Prepared By
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Section 2. Hazards Identification

Emergency overview

CAUTION !

MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.

Do not breathe vapor or mist. Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data. Wash thoroughly after handling.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation.

Eyes This product may irritate eyes upon contact. Inflammation of the eye is characterized by redness, watering and itching.

Skin Harmful in contact with skin. Irritant, permeator. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, or reddening. May cause allergic reactions in certain individuals.

Inhalation Avoid inhalation of vapor, spray or mist.

Ingestion Harmful if swallowed.

Chronic effects Contains material which may cause damage to the following organs: blood, kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
HYDROCARBON PROPELLANT; blend of propane & n-butane	74-98-6; 106-97-8	3 - 7
D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-	5989-27-5	1 - 5
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	1 - 5
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ethylenediamine tetraacetic acid; tetrasodium salt	64-02-8	1 - 5
ALPHA OLEFIN SULFONATE; SODIUM SALT; sulfonic acids; c14-18 alkane and c12-20 alkene; c12-20 alkenehydroxy; sodium salts	68439-57-6	1 - 5
PROPYLENE GLYCOL; 1,2-dihydroxypropane,1,2-propanediol	57-55-6	1 - 5

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

Ingestion If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point Not determined.

Flammable Limits

Flammability Non-flammable. (CSMA Method)

Auto-ignition Temperature

Fire-Fighting Procedures Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. In case of fire, use water spray (fog), foam or dry chemical.

Fire hazard CONTENTS UNDER PRESSURE. In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.

Products of Combustion carbon oxides (CO, CO_2) and other unidentified organic compounds

Explosion hazard Not available.

Section 6. Accidental Release Measures

Spill Clean up Large spills are unlikely due to packaging. Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Observe label precautions. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Wash thoroughly after handling.

Storage CONTENTS UNDER PRESSURE. Do not store above the following temperature: 49°C (120.2°F). Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep out of the reach of children. Do not puncture or incinerate container.

Section 8. Exposure Controls/Personal Protection

Product name	Exposure limits
Propellant; Blend of Propane and n-Butane	**ACGIH TLV / OSHA PEL (United States). Notes: Propane** TWA: 1000 ppm 8 hour(s).
propane-1,2-diol	**AIHA WEEL (United States, 1/2009).** TWA: 10 mg/m³ 8 hour(s).

Personal Protective Equipment (PPE)

Eyes Recommended: Safety glasses.

Hands and Body Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Section 9. Physical and Chemical Properties

Physical State Liquid. [Aerosol.]

pH Not available.

Boiling Point Not available.

Specific Gravity 1.004

Solubility

Freezing Point

Color Colorless to light yellow.

Odor Citrus

Vapor Pressure Not determined.

Vapor Density Not determined.

Evaporation Rate Not available.

VOC (Consumer) 7.98% 80 g/L

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Diethylene glycol monobutyl ether	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
Tetrasodium Ethylenediamine Tetraacetate	LD50 Oral	Rat	4100 mg/kg	-
propane-1,2-diol	LD50 Dermal	Rabbit	208 mg/kg	-
	LD50 Oral	Dog	260 mg/kg	-
	LD50 Oral	Mouse	240 mg/kg	-
	LD50 Oral	Rat	200 mg/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Diethylene glycol monobutyl ether	-	Acute LC50 2000000 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 40 to 100 mm	96 hours
	-	Acute LC50 1300000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	96 hours
propane-1,2-diol	-	Acute EC50 >10000000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - 6 to 24 hours	48 hours
	-	Acute LC50 34060 mg/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours
	-	Acute LC50 15052 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 5122 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 >1000 mg/L Marine water	Crustaceans - Amphipod - Chaetogammarus marinus - Young - 5 mm	48 hours
	-	Acute LC50 55770000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours
	-	Acute LC50 1020000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <=24 hours	48 hours
	-	Acute LC50 710000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours
	-	Chronic NOEC 660000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <=24 hours	48 hours
	-	Chronic NOEC 600000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: - [Not applicable.]
Classification: -
Origin: -

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	1950	Aerosols, non-flammable	2.2	-		**Explosive Limit and Limited Quantity Index** 1
IMDG Class	Not available.	Not available.	Not available.	-		-

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information

Canada

WHMIS (Canada) Class A: Compressed gas.
Class D-2B: Material causing other toxic effects (Toxic).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.